

SEQUENCE LISTING

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<110> Bristol-Myers Squibb Company
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      Pak, Roger
      Lewis, Martin
      Smith, David
      Hendrick, Joseph
      Vinitzky, Alexander
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<120> ISOLATION OF FUNCTIONALLY ACTIVE GAMMA-SECRETASE PROTEIN COMPLEX AND METHODS FOR DETECTION OF ACTIVITY AND INHIBITORS THEREOF

<130> D0004 DIV

<140> 09/823,153

<141> 2001-03-30

<160> 11

<170> PatentIn version 3.0

$\langle 210 \rangle$ 1

<211> 354

<212> DNA

<213> Human Beta App

$\langle 400 \rangle$ 1

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gatgtgggtt	caaacaaagg	tgcaatcatt	ggactcatgg	tgggcggtgt	tgtcatagcg	180
acagtgatcg	tcatcacctt	ggtgatgctg	aagaagaaac	agtacacatc	cattcatcat	240
ggtgtggtgg	aggttgacgc	cgctgtcacc	ccagaggagc	gccacctgtc	caagatgcag	300
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<211> 117

<212> PRT

<213> Human Beta App

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Ala Leu Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His
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Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala
35 40 45

Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val Ile Val
 50 55 60

Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile His His
 65 70 75 80

Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg His Leu
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Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys Phe Phe
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Glu Gln Met Gln Asn
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 gtgggcgggtg ttgtcatagc gacagtgatc gtcatcacct tggatgatgct gaagaagaaa 180
 cagtacacat ccattcatca tgggtgtggtg gaggttgacg ccgctgtcac cccagaggag 240
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<210> 4
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Met Leu Pro Gly Leu Ala Leu Phe Leu Leu Ala Ala Trp Thr Ala Arg
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Ala Leu Asp Ala Glu Phe Val Phe Phe Ala Glu Asp Val Gly Ser Asn
 20 25 30

Lys Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
 35 40 45

Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser
 50 55 60

Ile His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu
 65 70 75 80

Arg His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr

	85	90	95
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<210> 5
<211> 16
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<213> Artificial Sequence

<220>
<221> misc_feature
<223> Description of Artificial Sequence: PS1 PEPTIDE

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<210> 6
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<220>
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<223> Description of Artificial Sequence: PS1 PEPTIDE

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Arg

<210> 7
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<220>
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<223> Description of Artificial Sequence: PS1 PEPTIDE

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20 25 30

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu

35					40					45					
Gly	Leu	Glu	Phe	Pro	Asn	Leu	Pro	Tyr	Tyr	Ile	Asp	Gly	Asp	Val	Lys
50					55					60					
Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	Ala	Asp	Lys	His	Asn
65					70					75					80
Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	Glu	Ile	Ser	Met	Leu	Glu
				85					90					95	
Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	Val	Ser	Arg	Ile	Ala	Tyr	Ser
			100					105					110		
Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu
		115					120					125			
Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn
	130					135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp
145					150					155					160
Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu
				165					170					175	
Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr
			180					185					190		
Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
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Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg
	210					215					220				
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<210> 8

<211> 354

<212> PRT

<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: PS1 PEPTIDE

<400> 8

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		20					25					30			

Tyr	Glu	Arg	Asp	Glu	Gly	Asp	Lys	Trp	Arg	Asn	Lys	Lys	Phe	Glu	Leu
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35					40					45					
Gly	Leu	Glu	Phe	Pro	Asn	Leu	Pro	Tyr	Tyr	Ile	Asp	Gly	Asp	Val	Lys
50					55					60					
Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	Ala	Asp	Lys	His	Asn
65					70					75					80
Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	Glu	Ile	Ser	Met	Leu	Glu
				85					90					95	
Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	Val	Ser	Arg	Ile	Ala	Tyr	Ser
			100					105					110		
Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu
		115					120					125			
Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn
	130					135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp
145					150					155					160
Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu
				165					170					175	
Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr
			180					185					190		
Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
		195					200					205			
Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg
	210					215					220				
Gly	Ser	Leu	Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Thr	Met	Val	Trp	Leu
225					230					235					240
Val	Asn	Met	Ala	Glu	Gly	Asp	Pro	Glu	Ala	Gln	Arg	Arg	Val	Ser	Lys
				245					250					255	
Asn	Ser	Lys	Tyr	Asn	Ala	Glu	Ser	Thr	Glu	Arg	Glu	Ser	Gln	Asp	Thr
			260					265					270		
Val	Ala	Glu	Asn	Asp	Asp	Gly	Gly	Phe	Ser	Glu	Glu	Trp	Glu	Ala	Gln
		275					280					285			
Arg	Asp	Ser	His	Leu	Gly	Pro	His	Arg	Ser	Thr	Pro	Glu	Ser	Arg	Ala
	290					295					300				
Ala	Val	Gln	Glu	Leu	Ser	Ser	Ser	Ile	Leu	Ala	Gly	Glu	Asp	Pro	Glu
305					310					315					320
Glu	Arg	Gly	Val	Lys	Leu	Gly	Leu	Gly	Asp	Phe	Ile	Phe	Tyr	Ser	Val
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Leu	Val	Gly	Lys	Ala	Ser	Ala	Thr	Ala	Ser	Gly	Asp	Trp	Asn	Thr	Thr

